DEPARTMENT OF THE NAVY
JOINT BASE ANACOSTIA-BOLLING
20 MACDILL BLVD, SUITE 300
WASHINGTON, D.C. 20032-7711

5090
Ser
December 26, 2017

Karen Crumlish, Branch Chief
Drinking Water Branch (3WP21)
Water Protection Division
U.S. EPA Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

Ms. Crumlish:

Enclosed are the nitrate results from the December 2017 sample event on the Joint Base Anacostia-Bolling (JBAB) Bolling side. Included with the results are the certificates of analysis and the Chain of Custody Form.

Based on the JBAB-Anacostia sample results, the nitrate analytical results were below the MCL of 10 mg/L.

Please mail all correspondence to:

ATTN: Director, Installation Environmental Program
Department of the Navy
PWD- Joint Base Anacostia-Bolling
370 Brookley Avenue SW
JBAB, Washington, DC 20032-0101

If you have any questions or require further information, please contact Ms. Anna Angione, of my staff, at (202) 685-3267 or via email at anna.angione@navy.mil.

Sincerely,

MADINA M. ALHARAZIM
By direction

Enclosures: (1) Nitrate certificates of analysis and chain of custody form for December 2017

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ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Inspection Experts, Inc.
9220 Rumsey Road
Bay #5
Columbia MD 21045

Report Date: January 05, 2018 09:44

Project: NAVFAC Regional/JBAB Nitrate

Account #: 38771
Group Number: 1891433
PO Number: 1511-221
Release Number: JBAB
State of Sample Origin: MD

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Inspection Experts Inc. Attn: Kosala De Silva

Respectfully Submitted,

Jordan Zito
Project Manager

(717) 556-7289

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
BOL-31 Grab Water Sample	12/28/2017 09:57	9387935
BOL-628 Grab Water Sample	12/28/2017 09:24	9387936
BOL-69 Grab Water Sample	12/28/2017 10:07	9387937
BOL-4472 Grab Water Sample	12/28/2017 08:54	9387938
BOL-46 Grab Water Sample	12/28/2017 08:15	9387939
BOL-6126 Grab Water Sample	12/28/2017 08:40	9387940
BOL-1587A Grab Water Sample	12/28/2017 09:09	9387941

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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Analysis Report

Sample Description: **BOL-31 Grab Water Sample**
NAVFAC Regional/JBAB Nitrate

Project Name: **NAVFAC Regional/JBAB Nitrate**

Submittal Date/Time: 12/28/2017 16:20
Collection Date/Time: 12/28/2017 09:57

Inspection Experts, Inc.
ELLE Sample #: WW 9387935
ELLE Group #: 1891433
Matrix: Wastewater

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
00368	Nitrate Nitrogen		14797-55-8	1.7	0.25	0.50	5

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	17362987213A	12/28/2017 23:09	Clinton M Wilson	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **BOL-628 Grab Water Sample**
NAVFAC Regional/JBAB Nitrate

Project Name: **NAVFAC Regional/JBAB Nitrate**

Submittal Date/Time: 12/28/2017 16:20
Collection Date/Time: 12/28/2017 09:24

Inspection Experts, Inc.
ELLE Sample #: WW 9387936
ELLE Group #: 1891433
Matrix: Wastewater

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
00368	Nitrate Nitrogen		14797-55-8	1.5	0.25	0.50	5

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	17362987213A	12/28/2017 23:23	Clinton M Wilson	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **BOL-69 Grab Water Sample**
NAVFAC Regional/JBAB Nitrate

Project Name: **NAVFAC Regional/JBAB Nitrate**

Submittal Date/Time: 12/28/2017 16:20
Collection Date/Time: 12/28/2017 10:07

Inspection Experts, Inc.
ELLE Sample #: WW 9387937
ELLE Group #: 1891433
Matrix: Wastewater

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
00368	Nitrate Nitrogen		14797-55-8	1.6	0.25	0.50	5

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	17362987213A	12/29/2017 00:06	Clinton M Wilson	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **BOL-4472 Grab Water Sample**
NAVFAC Regional/JBAB Nitrate

Project Name: **NAVFAC Regional/JBAB Nitrate**

Submittal Date/Time: 12/28/2017 16:20
Collection Date/Time: 12/28/2017 08:54

Inspection Experts, Inc.
ELLE Sample #: WW 9387938
ELLE Group #: 1891433
Matrix: Wastewater

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
00368	Nitrate Nitrogen		14797-55-8	1.5	0.25	0.50	5

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	17362987213A	12/29/2017 00:21	Clinton M Wilson	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **BOL-46 Grab Water Sample**
NAVFAC Regional/JBAB Nitrate

Project Name: **NAVFAC Regional/JBAB Nitrate**

Submittal Date/Time: 12/28/2017 16:20
Collection Date/Time: 12/28/2017 08:15

Inspection Experts, Inc.
ELLE Sample #: WW 9387939
ELLE Group #: 1891433
Matrix: Wastewater

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
00368	Nitrate Nitrogen		14797-55-8	2.2	0.25	0.50	5

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	17362987213A	12/29/2017 00:35	Clinton M Wilson	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **BOL-6126 Grab Water Sample**
NAVFAC Regional/JBAB Nitrate

Project Name: **NAVFAC Regional/JBAB Nitrate**

Submittal Date/Time: 12/28/2017 16:20
Collection Date/Time: 12/28/2017 08:40

Inspection Experts, Inc.
ELLE Sample #: WW 9387940
ELLE Group #: 1891433
Matrix: Wastewater

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
00368	Nitrate Nitrogen		14797-55-8	2.3	0.25	0.50	5

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	17362987213A	12/29/2017 00:49	Clinton M Wilson	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **BOL-1587A Grab Water Sample**
NAVFAC Regional/JBAB Nitrate

Project Name: **NAVFAC Regional/JBAB Nitrate**

Submittal Date/Time: 12/28/2017 16:20
Collection Date/Time: 12/28/2017 09:09

Inspection Experts, Inc.
ELLE Sample #: WW 9387941
ELLE Group #: 1891433
Matrix: Wastewater

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	**mg/l**	
00368	Nitrate Nitrogen		14797-55-8	1.6	0.25	0.50	5

Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00368	Nitrate Nitrogen	EPA 300.0	1	17362987213B	12/29/2017 01:04	Clinton M Wilson	5

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Inspection Experts, Inc. Group Number: 1891433
Reported: 01/05/2018 09:44

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	mg/l	mg/l	mg/l
Batch number: 17362987213A	Sample number(s): 9387935-9387940		
Nitrate Nitrogen	N.D.	0.050	0.10
Batch number: 17362987213B	Sample number(s): 9387941		
Nitrate Nitrogen	N.D.	0.050	0.10

LCS/LCSD

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 17362987213A	Sample number(s): 9387935-9387940								
Nitrate Nitrogen	0.750	0.697	0.750	0.699	93	93	90-110	0	20
Batch number: 17362987213B	Sample number(s): 9387941								
Nitrate Nitrogen	0.750	0.697	0.750	0.699	93	93	90-110	0	20

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 17362987213A	Sample number(s): 9387935-9387940 UNSPK: P386973									
Nitrate Nitrogen	1.37	2.50	3.92			102		90-110		
Batch number: 17362987213B	Sample number(s): 9387941 UNSPK: 9387941									
Nitrate Nitrogen	1.60	2.50	4.00			96		90-110		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

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Quality Control Summary

Client Name: Inspection Experts, Inc. Group Number: 1891433
Reported: 01/05/2018 09:44

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 17362987213A	Sample number(s): 9387935-9387940 BKG: P386973			
Nitrate Nitrogen	1.37	1.37	0 (1)	15
Batch number: 17362987213B	Sample number(s): 9387941 BKG: 9387941			
Nitrate Nitrogen	1.60	1.60	0 (1)	15

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 38771 Group # 1891433 Sample # 9387935-41

Client: Inspection Experts, Inc. - JBAB	
Project Name/#: NAVFAC Regional/JBAB Nitrate	**Site ID #:** JBAB
Project Manager: Kosala De Silva	**P.O. #:** 1511-221
Sampler: Gayan Kularathne	**PWSID #:**
Phone #: 410-715-3939	**Quote #:**
State where samples were collected: MD	For Compliance: Yes ☑ No ☐

For Lab Use Only
SF #: ____
SCR #: ____

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil / Sediment / Tissue	Matrix: Water (Potable / NPDES / Ground / Surface)	Other:	Total # of Containers	Nitrates (EPA 300.0)										Remarks
BOL-31	12/28	0957	X			DW		1	1										
BOL-628	12/28	0924	X			DW		1	1										
BOL-69	12/28	1007	X			DW		1	1										
BOL-4472	12/28	0854	X			DW		1	1										
BOL-46	12/28	0815	X			DW		1	1										
BOL-~~6000~~ 612b	12/28	0840	X			DW		1	1										
BOL-1587 A	12/28	0909	X			DW		1	1										

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: kosala@ieinc.net

Phone: 410-715-3939

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	12/28	1400	[signature]	12-28-17	1400
[signature]	12-28-17	1620			
			[signature]	12-28-17	1620

Relinquished by Commercial Carrier:
UPS ____ FedEx ____ Other ____

Temperature upon receipt 0.4 °C

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☐ No ☐ If yes, format: ____

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Sample Administration Receipt Documentation Log

Doc Log ID: 204950

Group Number(s): 1891433

Client: Inspection Experts, Inc. - JBAB

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	12/28/2017 16:20
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	MD		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Melvin Sanchez (8943) at 16:38 on 12/28/2017

Samples Chilled Details

Thermometer Types: *DT = Digital (Temp. Bottle)* *IR = Infrared (Surface Temp)* *All Temperatures in °C.*

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	0.4	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	non-detect
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.